Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.00	Rating **	Α	Issue No.		39	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Earthen Levee				GPS La	atitud	e/Longitude	
Category	Category					End	
Operations & Maintenance					0		0
пеш	Manuals				0		0
DWR ID DWR_RD1602_01_s _ 2012_39							
		Comn	nent Cod	de			
			_				
		Inspecto	or Comm	nent			
The LMA has all the O&M manuals.							

No Photos

LM Start	0.00	Rating **	Α	Issue No.		77	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item		y Supplies &			0		0
пеш	Equipmen	nt			0		0
DWR ID	DWR_RD1	602_01_s _ 201	2_77				
		Comn	nent Coo	de			

No Photos

Inspector Comment

The LMA has enough flood materials in case of an incident.

LM Start	0.00	Rating **	Α	Issue No.		97	
LM End	0.00	Issue Type +	Ма	Location *		N/A	
Category Earthen Levee				GPS La	atitud	le/Longitude	
				Start		End	
Item	Flood Preparedness & Training				0		0
пеш				0		0	
DWR ID	DWR_RD1	602_01_s _ 201	2_97				
		Comn	nent Cod	le			
Inspector Comment							
The LMA has solid understanding of flood fight techniques and most of the staff have flood preparedness training.							

No Photos

* Location

N/A: Not Applicable

LS : Land Side WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.09	Rating **	М	Issue No.		60	
LM End	0.11	Issue Type +	Ма	Location *		LS	
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thin Trees					37.477299°	
пеш				-121.0825	04°	-121.082084°	
DWR ID DWR_RD1602_01_f _ 2019_60							
		Comn	nent Cod	de			
T1 : Trim t	rees to at	east five feet	above g	round level.			
			_				
Inspector Comment							



Looking upstream at trees on landward slope.

LM Start	0.13	Rating **	М	Issue No.	lo. 130			
LM End	0.55	Issue Type +	Ma	Location *	WS			
Category	evee	GPS La	atitud	e/Longitude				
Calegory						End		
Item	Vegetation			37.4772	27°	37.480251 °		
пеш	-121.081812° -					-121.075141 °		
DWR ID DWR_RD1602_01_f _ 2019_130								

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_130_20191114_00109.jpg



Looking West along the the waterside slope. (Fall 2019)

Photo 1 of 1: FA_2019_RD1602_110_131_20191114_00110.jpg

LM Start	0.13	Rating **	М	Issue No.		131
LM End	0.55	Issue Type +	Ma	Location *	LS	
Category	Earthen L	evee		GPS La	titud	e/Longitude
Category				Start		End
Item	Vegetatio	n		37.4772	27°	37.480251 °
пеш				-121.0818	11 °	-121.075140°
DWR ID	DWR_RD1	602_01_f _ 201	9_131			·

V1: Control annual grass and weeds on the levee slopes and

easements.

Inspector Comment

Comment Code



Looking West along the landside slope. (Fall 2019)

Location LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.18	Rating **	М	Issue No.	20			
LM End	0.18	Issue Type +	Ма	Location *	LS			
Category	Cotogon Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End			
Item	Animal Co	ontrol		37.47757	'5 °	37.477575°		
пеш				-121.08094	3°	-121.080943 °		
DWR ID DWR_RD1602_01_f _ 2016_20								
Comment Code								

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 2 : FA_2019_RD1602_	_110_28_20190912_00008.jpg
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No Photos



Updated picture of the rodent hole on the waterside of the levee during spring 2016 inspection.

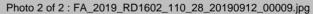
LM Start	0.20	Rating **	М	Issue No.	28		
LM End	0.20	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Animal Co	ontrol		37.4777	06°	37.477706°	
пеш				-121.0806	74°	-121.080674°	
DWR ID	R ID DWR_RD1602_01_f _ 2015_28						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LM Start	0.20	Rating **	М	Issue No.	28 (cont)
LM End	0.20	Issue Type +	Ma	Location *	WS





A rodent hole was found on the waterside of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.26	Rating **	М	Issue No.		29		
LM End	0.26	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start	End			
Item	Animal Co	ontrol		37.478138°		37.478138°		
пеш				-121.0798	10°	-121.079810°		
DWR ID	DWR ID DWR_RD1602_01_f _ 2017_29							
Comment Code								
A3 : No ro	dents visib	A3 : No rodents visible, but rodent burrows visible; need to backfill and						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





View of a rodent hole on the waterside of the levee. Fall 2017

Photo 2 of 2: FA_2019_RD1602_110_29_20190912_00011.jpg



Looking at typical rodent holes on waterward slope. (Spring 2018)

LM Start	0.47	Rating **	M	Issue No.		31	
LM End	0.47	Issue Type +	Ma	Location *		WS	
Category	Earthen L	.evee		GPS La	atitud	le/Longitude	
Category			Start		End		
Animal Control			37.479659°		37.479659	0	
item				-121.076419°		-121.076419	0
DWR ID	DWR_RD1	602_01_f _ 201	5_31				
		Comn	nent Cod	de			
A3 : No roccompact o		le, but rodent rrows.	burrows	visible; ne	ed to	backfill and	
		Inspect	or Comm	nent			

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.50	Rating **	М	Issue No.		110
LM End	0.50	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Animal Control			37.4798	99°	37.479899°
пеш				-121.075930 ° -121.075		
DWR ID	DWR_RD1	602_01_f _ 201	8_110			
		Comn	nent Coc	de		
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
Inspector Comment						

No Photos

LM Start	0.55	Rating **	U	Issue No.		124	
LM End	1.41	Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetatio	n		37.4802	51 °	37.479070°	
item				-121.0751	41 °	-121.061849°	
DWR ID	R ID DWR_RD1602_01_f _ 2019_124					·	
	Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the waterside slope looking downstream. (Fall 2019)

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.58	Rating **	A/W	Issue No.		200	
LM End	0.58	Issue Type +	Ma	Location *			
Supplemental				GPS Latitude/Longitude			
Category			Start				
Item	DRAFT D	WR UCIP LM	A	37.4801	82 °	37.480182°	
пеш	Responsi	bility		-121.0747	65 °	-121.074765°	
DWR ID	20215						
	Comment Code						

Inspector Comment

DS ID:20215 FS_ID:51325 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR

FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Photo 1 of 3: UCIP_FA_2019_51325_36702.jpg



60-inch CMP riser on WS shoulder.

Photo 2 of 3: UCIP_FA_2019_51325_36701.jpg



CMP riser with slide gate on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.58	Rating **	A/W	Issue No.		200 (cont)
LM End	0.58	Issue Type +	Ma	Location *		
Category				GPS Latitude/Longitude		
Calegory	negory			Start		End
Item		WR UCIP LM	A	37.4801	82 °	37.480182°
пеш	Responsil	oility	-121.0747	65 °	-121.074765°	
DWR ID	20215					·

Comment Code

Inspector Comment

DS_ID:20215 FS_ID:51325 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR LICIP)

FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784].

FS Date: 11/18/2016

Photo 3 of 3 : UCIP_FA_2019_51325_36700.jpg

Damaged Wooden lid on WS toe.

LM Start	0.60	Rating **	U	Issue No.		129
LM End	0.76	Issue Type +	Ма	Location *	LS	
Category Earthen Levee				GPS Latitude/Longitude		
Category			Start End			
Item	Vegetatio	n		37.4799	70°	37.478111°
пеш				-121.0745	99°	-121.072783 °
DWR ID	WR ID DWR_RD1602_01_f _ 2019_129					
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_129_20191114_00111.jpg



View of the vegetation along the landside slope looking downstream.
(Fall 2019)

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.62	Rating **	U	Issue No.		128	
LM End	0.78	Issue Type +	Ma	Location *		CR	
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.4796	80°	37.477883°	
item				-121.0743	-121.072481°		
DWR ID	DWR_RD1	602_01_f _ 201	9_128				
		Comn	nent Cod	de			
V9 : Keep	the crown	roadway free	of veget	ation.			
		Inspecto	or Comm	nent			



View of the levee crown looking upstream. (Fall 2019)

Rating ** Issue No. 0.63 М 107 LM Start 0.63 Issue Type + Location * LS LM End Earthen Levee GPS Latitude/Longitude Category Start End **Animal Control** 37.479569° 37.479569° Item -121.074299° -121.074299° DWR_RD1602_01_f _ 2018_107 DWR ID

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	0.64	Rating **	М	Issue No.		30
LM End	0.64	Issue Type +	Ма	Location *	Location *	
Category	Earthen L	evee		GPS Latitude/L		le/Longitude
Calegory						End
Item	Animal Co	ontrol		37.4793	91 °	37.479391°
item				-121.0741	68°	-121.074168°
DWR ID	DWR RD1	602 01 f 201	7 30			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside slope of the levee. Fall 2017

Location

N/A: Not Applicable

LS: Land Side WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.77	Rating **	A/W	Issue No.		202	
LM End	0.77	Issue Type +	Ma	Location *			
Category	Suppleme		GPS Latitude/Longitude				
Calegory				Start		End	
Item	DRAFT D	WR UCIP LM	A	37.4779	93 °	37.477993°	
пеш	Responsil	bility		-121.0726	45 °	-121.072645°	
DWR ID	20216					·	
	Comment Code						

Inspector Comment

DS_ID:20216 FS_ID:51634 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP)

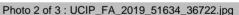
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.78), Drawing No. 7-4-1784]. FS Date: 11/18/2016

 LM Start
 0.77
 Rating **
 A/W
 Issue No.
 202 (cont)

 LM End
 0.77
 Issue Type +
 Ma
 Location *



Inlet on LS toe.





Slide gate in concrete box on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.77	Rating **	A/W	Issue No.		202 (cont)
LM End	0.77	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	titud	le/Longitude
Calegory			Start		End	
Item	DRAFT D	WR UCIP LM	A	37.4779	93 °	37.477993°
item	Responsil	bility	-121.0726	45 °	-121.072645°	
DWR ID	20216					

Inspector Comment

Comment Code

DS ID:20216 FS_ID:51634 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM

0.78), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Concrete inlet on LS toe.

LM Start	0.98	Rating **	U	Issue No.		125	
LM End	1.20	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetatio	n		37.4787	05°	37.478321 °	
пеш				-121.0690	81 °	-121.065333°	
DWR ID	DWR_RD1602_01_f _ 2019_125					·	
	Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_125_20191114_00112.jpg



Looking downstream along the landside slope. (Fall 2019)

Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

A/W : Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	0.98	Rating **	М	Issue No.		126	
LM End	1.18	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation					37.478283	0
item	-121.069043 °				43°	-121.065635	0
DWR ID	DWR_RD1	602_01_f _ 201	9_126				
		Comn	nent Coo	de			
V9 : Keep	the crown	roadway free	of veget	ation.			
		Inspecto	or Comm	nent			

No Photos

LM Start	1.00	Rating **	М	Issue No.		203	
LM End	1.00	Issue Type +	Ma	Location *			
Category	Suppleme	ental		GPS La	titud	e/Longitude	
Calegory				Start		End	
Item		WR UCIP LM	A	37.4788	16°	37.478816	0
пеш	Responsi	bility		-121.06878	80°	-121.068780	0
DWR ID	20217						

Comment Code

Inspector Comment

DS_ID:20217 FS_ID:51636 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currenly not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

FS Date: 11/18/2016

Photo 1 of 3: UCIP_FA_2019_51636_36758.jpg



Pumping plant on LS toe. Pipe visible under walkway.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.00	Rating **	М	Issue No.		203 (cont)
LM End	1.00	Issue Type +	Ма	Location *		
Category	Supplemental			GPS La	titud	e/Longitude
Calegory				Start		End
ltom		WR UCIP LM	/R UCIP LMA		16°	37.478816°
ltem Responsibility		oility		-121.0687	30°	-121.068780°
DWR ID	20217					·

Inspector Comment

Comment Code

DS_ID:20217 FS_ID:51636 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

FS Date: 11/18/2016

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currenly not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

LM Start	1.00	Rating **	М	Issue No.	203 (cont)
I M End	1.00	Issue Type +	Ma	Location *	



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 3 of 3: UCIP_FA_2019_51636_36756.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.00	Rating **	М	Issue No.		204			
LM End	1.00	Issue Type +	Ма	Location *					
Category	Supplemental			Supplemental			GPS La	titud	e/Longitude
Calegory				Start		End			
ltom		WR UCIP LM	/R UCIP LMA		17°	37.478817°			
пеш	Item Responsibility			-121.0687	73°	-121.068773°			
DWR ID	20219					·			

Comment Code Inspector Comment

DS_ID:20219 FS_ID:51637 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

LM Start	1.00	Rating **	М	Issue No.	204 (cont)
LM End	1.00	Issue Type +	Ma	Location *	



Pipe visible under walkway at puming plant on LS toe.



Siphon breaker covered in soil at CMP riser on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.00	Rating **	М	Issue No.		204 (cont)
LM End	1.00	Issue Type +	Ма	Location *		
Category	Supplemental			GPS La	atitud	e/Longitude
Calegory				Start		End
ltom		WR UCIP LM	/R UCIP LMA		17°	37.478817°
Responsibility			-121.0687	73 °	-121.068773°	
DWR ID	20219					·

Comment Code

Inspector Comment

DS_ID:20219 FS_ID:51637 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

Photo 3 of 3: UCIP_FA_2019_51637_36770.jpg



Concrete headwall on WS toe with missing flapgate.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No.		205		
LM End	1.02	Issue Type +	Ma	Location *				
Category	Suppleme	ental		GPS La	le/Longitude			
Calegory				Start		End		
Item		WR UCIP LM	A	37.4787	79°	37.478779°		
пеш	Responsil	bility		-121.0685	08°	-121.068508°		
DWR ID	20218					·		
	Comment Code							

Inspector Comment

DS_ID:20218 FS_ID:53521 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it dificult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 10/19/2018 10:23:00 AM

Photo 1 of 3: UCIP_FA_2019_53521_36786.jpg



Grated inlet and 5'X5' concrete box on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No.	205 (cont)		
LM End	1.02	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	ory			Start		End	
Item	DRAFT D	WR UCIP LM	A	37.4787	79°	37.478779°	
пеш	Responsil	oility		-121.0685	08°	-121.068508°	
DWR ID	20218						
	Comment Code						

Inspector Comment

DS_ID:20218
FS_ID:53521
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found

UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it dificult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 10/19/2018 10:23:00 AM



Grated inlet at LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.02	Rating **	U	Issue No. 205 (cont)		205 (cont)
LM End	1.02	Issue Type +	Ма	Location *		
Category	ental	GPS Latitude/Longitude				
Category			Start		End	
Item	DRAFT D	WR UCIP LM	A	37.47877	'9 °	37.478779°
пеш	Responsil		-121.06850)8 °	-121.068508°	
DWR ID	R ID 20218					
	Comment Code					

Inspector Comment

DS_ID:20218
FS_ID:53521
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found

UCIP Comments: 10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it dificult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 10/19/2018 10:23:00 AM



Slide gate in concrete riser next to shed on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.05	Rating **	М	Issue No.		2	
LM End	1.05	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory	gory					End	
Item	DWR Ero	sion Survey		37.4785	67°	37.478567°	
пеш				-121.0678	47°	-121.067847°	
DWR ID RD1602U01RM97.68							
	Comment Code						

Inspector Comment

Site ID: RD1602U01RM97.68

09/17/2019: No significant change observed. Signs of animal activities at the site

09/20/2017: The erosion was discovered during the spring levee inspection. The size of the erosion is roughly estimated due to dense vegetation at the site.

LM Start	1.05	Rating **	М	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019_DWR_RD1602_01_s _ 2012_37_1.jpg



Close-up view of the erosion. The erosion is covered by dense vegetation at the site.

Photo 2 of 3: SJR2019_DWR_RD1602_01_s _ 2012_37_4.JPG



Close view of the erosion.

LM Start	1.05	Rating **	М	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	

Photo 3 of 3: SJR2019_DWR_RD1602_01_s _ 2012_37_8.JPG



Close-up view at the erosion. Signs of squirrel activities.

* Location

LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
C: Corrected
U: Unacceptable
A/W: Acceptable but Monitor & Maintain

** Rating
A: Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.09	Rating **	М	Issue No.	127	
LM End	1.09	Issue Type +	Ma	Location *	LS	
Category Earthen Levee				GPS Latitude/Longitude		
Calegory		Start		End		
Item	Trim / Thi	n Trees		37.4784	49°	37.478449
пеш			-121.0672	61 °	-121.067261	
DWR ID DWR_RD1602_01_f _ 2019_127						
	Comment Code					

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Young tree growing in the landside shoulder should be removed before it can establish.

Photo 1 of 1: FA_2019_RD1602_110_127_20191114_00113.jpg



Young tree growing on the landside shoulder should be removed. (Fall 2019)

LM Start	1.19	Rating **	М	Issue No.	32	
LM End	1.19	Issue Type +	Ма	Location *	WS	
Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End	
Item	Animal Co	ontrol		37.4783	47°	37.478347°
item			-121.0653	61 °	-121.065361 °	
DWR ID DWR_RD1602_01_f _ 2017_32						
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	1.21	Rating **	М	Issue No.		115	_
LM End	1.59	Issue Type +	Ма	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetatio	n		37.47837	o°	37.477880	0
item				-121.06510	9°	-121.058939	0
DWR ID DWR_RD1602_01_f _ 2019_115							
	Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

* Location

N/A: Not Applicable LS: Land Side

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.33	Rating **	U	Issue No.		123	
LM End	1.41	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.4793	07°	37.479071 °	
пеш				-121.063262 °		-121.061849°	
DWR ID DWR_RD1602_01_f _ 2019_123							
		Comn	nent Cod	de			
V9 : Keep	the crown	roadway free	of veget	ation.			
		Inspecto	or Comm	nent			

Photo 1 of 1: FA_2019_RD1602_110_123_20191114_00114.jpg

View of vegetation on the levee crown. (Fall 2019)

LM Start	1.41	Rating **	М	Issue No.	118	
LM End	1.59	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End		
Item	Vegetatio	n		37.4790	71 °	37.477902°
пеш				-121.0618	49°	-121.058968°
DWR ID DWR_RD1602_01_f _ 2019_118						
Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	1.41	Rating **	М	Issue No.		114			
LM End	1.77	Issue Type +	Ma	Location *		CR			
Category	Earthen L	GPS L	atitud	de/Longitude					
Category		Start		End					
Item	Vegetatio	egetation/)71°	37.475563	c		
		-121.061849°		-121.057961	c				
DWR ID	DWR_RD1	602_01_f _ 201	9_114						
		Comn	nent Coo	de					
V9 : Keep	the crown	roadway free	of veget	ation.					
	Inspector Comment								

No Photos

* Location

LS : Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.55	Rating **	U	Issue No.	122		
LM End	1.55	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			37.478245 °		37.478245°	
			-121.059535 °		-121.059535 °		
DWR ID	DWR_RD1	602_01_f _ 201	9_122				
		Comn	nent Cod	de			
T4: Trim t	rees over i	roadway to at	least 12	feet above	gro	und level.	
Inspector Comment							

Photo 1 of 1 : FA_2019_RD1602_110_122_20191114_00115.jpg



Looking at tree limbs hanging over the landside shoulder and crown. (Fall 2019)

LM Start	1.57	Rating **	М	Issue No.		33	
LM End	1.57	Issue Type +	Ма	Location *	LS		
Category	Earthen L	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Encroachments			37.4781	13°	37.478113 °	
				-121.059287 °		-121.059287 °	
DWR ID	DWR_RD1602_01_f _ 2017_33						
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			



View of prunings on the landside of the levee.

LM Start	1.59	Rating **	U	Issue No.		106		
LM End	2.58	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee			GPS La	GPS Latitude/Longitude			
Calegory			Start		End			
Item	Vegetation			37.477901°		37.469098 °		
				-121.058968 °		-121.049210°		
DWR ID	DWR_RD1	DWR_RD1602_01_f _ 2019_106						
		Comn	nent Cod	de				
V1 : Contre		rass and wee	eds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				



Looking downstream at the waterside shoulder and slope. (Fall 2019)

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.60	Rating **	U	Issue No.		112
LM End	1.97	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS La	atitud	e/Longitude
Calegory		Start		End		
Item	Vegetation			37.477846°		37.472666
item				-121.0588	94°	-121.057922
DWR ID	DWR_RD1602_01_f _ 2019_112					
		Comn	nent Cod	de		
V1 : Contreasements		grass and wee	ds on th	e levee slo	pes a	and
		Inspecto	or Comm	nent		



View of the landside slope and toe looking downstream. (Fall 2019)

LM Start	1.65	Rating **	U	Issue No.		80	
LM End	1.65	Issue Type +	Ma	Location *	LS		
Catagony	Earthen L		GPS Latitude/Longitude				
Category			Start		End		
Item	Encroachments			37.477218°		37.477218°	
item			-121.058505 °		-121.058505 °		
DWR ID	DWR_RD1602_01_s _ 2018_80						
Comment Code							

TR : Tree or limb

Inspector Comment

Fallen tree branch on landward slope and toe.

Photo 1 of 1 : FA_2019_RD1602_110_80_20190912_00045.jpg



Looking at fallen branch on landward slope and toe.

LM Start	1.80	Rating **	М	Issue No.	104	
LM End	1.80	Issue Type +	Ма	Location *	LS	
Category	Earthen L	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Encroachments			37.4751	10°	37.475110°
item			-121.057925°		-121.057925 °	
DWR ID	DWR_RD1	602_01_f _ 201	8_104			
Comment Code						

PR: Prunings

Inspector Comment

Tree limbs on landside toe.



tree limbs on landside toe. (Fall 2018)

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	1.97	Rating **	М	Issue No.		111			
LM End	2.20	Issue Type +	Ma	Location *		LS			
Category	Earthen Levee			GPS La	atitud	e/Longitude			
Calegory		Start		End					
Item	Vegetatio	n		37.472554°		37.470181	0		
					25°	-121.055558	0		
DWR ID	DWR_RD1	602_01_f _ 201	9_111						
		Comn	nent Cod	de					
V1 : Contre easements		grass and wee	ds on th	e levee slo	pes	and			
		Inspecto	or Comm	nent					

No Photos

Issue No. Rating ** 1.99 Μ 109 LM Start 2.36 Issue Type + Location * CR LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.472266° 37.470480° Item -121.057894° -121.052801 ° DWR_RD1602_01_f _ 2019_109 DWR ID Comment Code

No Photos

V9: Keep the crown roadway free of vegetation.

Inspector Comment

	LM Start	2.27	Rating **	М	Issue No.	117				
	LM End	2.27	Issue Type +	Ma	Location *		WS			
	Category	Earthen L	evee	GPS Latitude/Longitude						
	Category		Start		End					
	Item	Trim / Thin Trees			37.470258°		37.470258	٥		
					-121.0543	92°	-121.054392	0		
	DWR ID	DWR_RD1602_01_s _ 2019_117								
	Comment Code									
	T1 : Trim trees to at least five feet above ground level.									

No Photos

Inspector Comment

* Location LS : Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	2.29	Rating **	М	Issue No.		79	
LM End	2.29	Issue Type +	Ма	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start End			
ltom	Animal Co	ontrol		37.47034	8 °	37.470348°	
item	Item					-121.053987°	
DWR ID	DWR ID DWR_RD1602_01_s _ 2017_79						
		Comn	nent Coo	de			

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	2.43	Rating **	U	Issue No.		108
LM End	2.56	Issue Type +	Ma	Location *		LS
Catagony	evee	GPS Latitude/Longitude				
Category				Start	End	
Item	Vegetatio	n		37.4702	10°	37.469272 °
item				-121.0516	01°	-121.049449 °
DWR ID	DWR_RD1602_01_f _ 2019_108					

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_108_20191114_00118.jpg



View of the landside slope looking downstream. (Fall 2019)

LM Start	2.56	Rating **	M	Issue No.		81	
LM End	2.56	Issue Type +	Ma	Location *		WS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Animal Co	ontrol		37.46926	88°	37.469268 °	,
Item				-121.04941	13°	-121.049413 °	,
DWR ID	DWR RD1	602 01 s 201	7 81				٦

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside slope of the levee.

Location

N/A: Not Applicable LS: Land Side

WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	2.77	Rating **	М	Issue No.		19		
LM End	2.79	Issue Type +	Ма	Location *				
Catagony	Category					le/Longitude		
Calegory				Start End				
Item	DWR Erosion Survey			37.46699	7°	37.466997°		
пеш				-121.04660	6°	-121.046606°		
DWR ID	RD1602U01RM99.7							
		Comment Code						

Inspector Comment

Site ID: RD1602U01RM99.7

09/12/2019: Five erosion pockets were found in a reach of approximately 120 ft at the levee toe. The largest pocket is approximately 5 ft long and 3 ft high.

LM Start	2.77	Rating **	М	Issue No.	19 (cont)
LM End	2.79	Issue Type +	Ма	Location *	

Photo 1 of 3 : SJR2019_DWR_RD1602_01_f _ 2018_98_1.JPG



Looking down at the erosion pocket.

Photo 2 of 3: SJR2019_DWR_RD1602_01_f _ 2018_98_2.JPG



Close view of the largest erosion pocket.

Photo 3 of 3: SJR2019_DWR_RD1602_01_f _ 2018_98_3.JPG

LM Start	2.77	Rating **	М	Issue No.	19 (cont)
LM End	2.79	Issue Type +	Ma	Location *	



Close-up view of the erosion.

*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

**Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable U : Unacceptable U : Unacceptable A/W : Acceptable but Monitor & Maintain

**Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	2.78	Rating **	A/W	Issue No.		98	
LM End	2.78	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Erosion / Bank Caving 37.466997 37.466997							
пеш	-121.046606 ° -121.046606						
DWR ID DWR_RD1602_01_f _ 2019_98							
		Comn	nent Cod	de			
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			
Erosion sit	e at waters	side toe					

LM Star	t 2.78	Rating **	A/W	Issue No.	98 (cont)
LIVI Otal	2.70	9	,,,,,,	.0000	30 (COIII)
LMEna	2 70	Iceua Typa +	Ma	Location *	\/\C



erosion at waterside toe. (Fall 2018)

Photo 2 of 2: FA_2019_RD1602_110_98_20190912_00057.jpg



close up view of erosion at toe. (Fall 2018)

	0.00	Rating **		Issue No.		4.4		
LM Start	2.82	Raung	М	issue ivo.		44		
LM End	2.82	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start				
Item	Animal Co	ontrol		37.4666	45°	37.466645°		
item				-121.0461	48 °	-121.046148°		
DWR ID	DWR_RD1	602_01_f _ 201	6_44					
		Comn	nent Cod	de				
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and		
		Inspecto	or Comm	nent				



View of rodent holes on the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	2.85	Rating **	М	Issue No.		46	
LM End	2.85	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End		
Item	Animal Co	ontrol		37.46629	4 °	37.466294°	
пеш			-121.04569	3°	-121.045693°		
DWR ID	DWR_RD1602_01_f _ 2016_46						
		Comn	nent Cod	de			

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	2.86	Rating **	M	Issue No.		47	
LM End	2.86	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Control				66°	37.466166 °	
item				-121.045527 °		-121.045527°	
DWR ID	DWR_RD1602_01_f _ 2016_47						

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside of the levee. Fall 2016

LM Start	2.89	Rating **	М	Issue No.		49	
LM End	2.89	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Animal Control			37.4658	98°	37.465898	0
item			-121.0452	09 °	-121.045209	0	
DWR ID	DWR RD1	602 01 f 201	6 49				

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside slope of the levee. Spring 2017

Page 27 of 51

Location

LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	2.95	Rating **	M	Issue No.		51
LM End	2.95	Issue Type +	Ма	Location *		WS
Category Earthen Levee			GPS La	titud	e/Longitude	
			Start		End	
Animal Control		37.465190°		37.465190°		
пеш				-121.044584°		-121.044584°
DWR ID	DWR_RD1	602_01_f _ 201	6_51			
		Comn	nent Cod	le		
	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_51_20190912_00025.jpg



View of a rodent hole on the waterside of the levee.

LM Start	2.98	Rating **	М	Issue No.		95
LM End	2.98	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
Item	Animal Control			37.4648	10°	37.464810°
пеш				-121.0442	48 °	-121.044248 °
DWR ID	DWR_RD1602_01_f _ 2018_95					
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	3.02	Rating **	М	Issue No.		105	
LIVI Start	0.02		141			100	
LM End	3.47	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Vegetation			37.4643	88°	37.459123	0
ROIII			-121.0438	82 °	-121.043671	0	
DWR ID	DWR_RD1602_01_f _ 2019_105						
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	3.19	Rating **	М	Issue No.		103
LM End	3.48	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS La	atitud	le/Longitude
Category	Category		Start		End	
Item	Vegetation			37.462538°		37.459020°
item			-121.041703 °		-121.043750 °	
DWR ID	DWR_RD1	602_01_f _ 201	9_103			
		Comn	nent Coc	de		
	V1 : Control annual grass and weeds on the levee slopes and easements.					
		Inspecto	or Comm	nent		

No Photos

LM Start	3.24	Rating **	М	Issue No.		94		
LM End	3.24	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Animal Co	ontrol		37.4618	79°	37.461879	0	
item				-121.0415	19°	-121.041519	0	
DWR ID	DWR_RD1602_01_f _ 2018_94							
		_						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	3.32	Rating **	М	Issue No.		56
LM End	3.32	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Animal Control			37.4608	11°	37.460811 °
item			-121.0420	78°	-121.042078°	
DWR ID	DWR RD1	602 01 s 201	7 56			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the landside of the levee. Fall 2016

* Location

LS : Land Side N/A : Not Applicable

WS : Water Side

N/A : Not Applicable

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

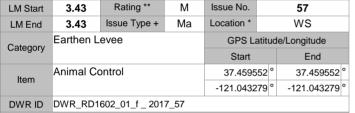
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	3.37	Rating **	М	Issue No.	113		
LM End	3.37	Issue Type +	Ma	Location *	CR		
Category Earthen Levee				GPS La	GPS Latitude/Longitude		
Calegory				Start		End	
ltom	Crown Surface / Depressions /			37.4602	17°	37.460217	0
пеш	Rutting				83 °	-121.042583	0
DWR ID DWR_RD1602_01_s _ 2019_113							
Comment Code							

C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.

Inspector Comment

No Photos



Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside of the levee.

LM Start	3.48	Rating **	U	Issue No.		99	
LM End	4.03	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetation			37.45902	20°	37.452049 °	,
пеш				-121.0437	50°	-121.041258 °	>
DWR ID DWR_RD1602_01_f _ 2019_99							
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



Looking upstream along the landside slope. (Fall 2019)

Location

LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	3.69	Rating **	U	Issue No.		102
LM End	3.69	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory			Start		End	
ltem Encroachments			37.4562	34°	37.456234°	
				-121.044194°		-121.044194°
DWR ID	DWR ID DWR_RD1602_01_f _ 2019_102					
		Comn	nent Cod	de		
TR : Tree	or limb					
		Inspecto	or Comm	nent		

Photo 1 of 1: FA_2019_RD1602_110_102_20191114_00120.jpg

View of fallen tree on the waterside slope and toe. (Fall 2019)

LM Start	3.76	Rating **	М	Issue No.		83
LM End	3.76	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End	
Item	Encroachments			37.4554	14°	37.455414°
item				-121.0437	65 °	-121.043765°
DWR ID DWR_RD1602_01_s _ 2017_83						
		_				

Comment Code

TR: Tree or limb

Inspector Comment



View of a tree trunk on the waterside slope of the levee.

LM Start	3.86	Rating **	U	Issue No.		100	
LM End	4.03	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
ltom	Vegetatio	n		37.45411	11°	37.452049 °	
пеш	ltem Santa)8 °	-121.041258 °	
DWR ID DWR_RD1602_01_f _ 2019_100							
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the waterside slope looking downstream. (Fall 2019)

Location LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

A/W : Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	3.90	Rating **	М	Issue No.		84
LM End	3.90	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Category				Start		End
Item	Animal Control			37.45350	66°	37.453566°
пеш				-121.0423	76°	-121.042376°
DWR ID	DWR_RD1	602_01_s _ 201	7_84			·

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





View of rodent holes on the waterside of the levee.

LM Start	3.93	Rating **	М	Issue No.		85
LM End	3.96	Issue Type +	Ma	Location *		CR
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
		Crown Surface / Depressions /			33°	37.452931 °
пеш	Rutting		-121.0421	17°	-121.041863°	
DWR ID	DWR_RD1602_01_s _ 2017_85					
		_	. ^			

Comment Code

C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.

Inspector Comment

No Photos

LM Start	3.93	Rating **	М	Issue No.		62
LM End	3.93	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Slope Stability				37.4532	16°	37.453216°
item			-121.0421	27°	-121.042127°	
DWR ID	DWR RD1	602 01 s 201	2 62			

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Significant damage to USACE constructed seepage berm due to human activity.

Photo 1 of 1: FA_2019_RD1602_110_62_20190912_00032.jpg



Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic.

Location LS: Land Side

N/A: Not Applicable

WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	4.03	Rating **	М	Issue No.		82
LM End	4.37	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory	Category			Start		End
Item	Vegetatio	n		37.4520	48°	37.447873°
пеш	item				59°	-121.037922°
DWR ID	DWR_RD1	602_01_f _ 201	9_82			
		Comn	nent Coc	de		
V1 : Contro easements		grass and wee	ds on th	e levee slo	pes a	and
	Inspector Comment					

No Photos

Rating ** Issue No. М LM Start 4.04 74 Issue Type + Location * LS LM End 4.16 Ma Earthen Levee GPS Latitude/Longitude Category Start End **Animal Control** 37.451892° 37.450563° Item -121.041168° -121.039725° DWR_RD1602_01_s _ 2019_74 DWR ID Comment Code

No Photos

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rating ** Issue No. LM Start 4.12 96 4.31 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.451065° 37.448682° Item -121.040139° -121.038417° DWR ID DWR_RD1602_01_f _ 2019_96 Comment Code

V1: Control annual grass and weeds on the levee slopes and

Inspector Comment

No Photos

* Location

easements.

N/A: Not Applicable LS: Land Side

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

	_						
LM Start	4.22	Rating **	М	Issue No.		73	
LM End	4.22	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				atitud	e/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		37.4498	14°	37.449814°	
пеш			-121.0391	12°	-121.039112 °		
DWR ID	DWR ID DWR_RD1602_01_s _ 2019_73						
		Comn	nent Cod	de			
TR : Tree	or limb						
Inspector Comment							

No Photos

LM Start	4.32	Rating **	U	Issue No.		87		
LM End	4.32	Issue Type +	Ma	Location *	LS			
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Animal Co	ontrol		37.4484	92°	37.448492°		
item				-121.0383	03°	-121.038303°		
DWR ID DWR_RD1602_01_f _ 2019_87								
	Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LM Start	4.32	Rating **	U	Issue No.	87 (cont)
I M End	4.32	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2019_RD1602_110_87_20191114_00122.jpg



View of rodent burrows in the landside slope. (Fall 2019)

Photo 2 of 2: FA_2019_RD1602_110_87_20191114_00123.jpg



Representative rodent burrow in the landside slope. (Fall 2019)

** Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design En: Enforce

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	4.38	Rating **	М	Issue No.		71
LM End	4.38	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory	Category					End
Item	Animal Co	ontrol		37.4477	61 °	37.447761°
пеш				-121.0378	45°	-121.037845 °
DWR ID DWR_RD1602_01_s _ 2019_71						
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	4.49	Rating **	U	Issue No.		69
LM End	4.49	Issue Type + Ma		Location *		WS
Category	evee	GPS La	titud	e/Longitude		
Calegory				Start		End
Item	Encroach	ments		37.4461	78°	37.446178°
пеш				-121.0378	55 °	-121.037855°
DWR ID	DWR_RD1602_01_s _ 2019_69					

Comment Code

TR: Tree or limb

Inspector Comment



View of fallen tree trunk on waterside slope. (Spring 2019)

LM Start	4.55	Rating **	М	Issue No.		91
LM End	4.55	Issue Type +	Ma	Location *		WS
Category	GPS Latitude/Longitude					
Calegory				Start		End
Item	Animal Control				02°	37.445402°
item				-121.0377	06°	-121.037706°
DWR ID	DWR RD1	602 01 s 201	7 91			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Holes in waterside slope and both the waterside and landside shoulders.

Photo 1 of 1: FA_2019_RD1602_110_91_20190912_00054.jpg



View of rodent holes on the waterside of the levee looking downstream. Spring 2017

Location LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma: Maintenance Deficiancy

Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	4.60	Rating **	М	Issue No.		78	
LM End	4.60	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			37.4446	24°	37.444624°	
пеш				-121.0377	77°	-121.037777°	
DWR ID	DWR_RD1	602_01_f _ 201	9_78				
		Comn	nent Coo	le			
T4: Trim t	T4 : Trim trees over roadway to at least 12 feet above ground level.						
	Inspector Comment						

No Photos

LM Start	4.81	Rating **	U	Issue No.		37	
LM End	5.94	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
		Start		End			
Item	Vegetation			37.4419	14°	37.432394	0
		-121.0366	00°	-121.026436	0		
DWR ID	DWR_RD1	602_01_f _ 201	9_37				

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2019_RD1602_110_37_20191114_00124.jpg



Looking downstream along the waterside slope. (Fall 2019)

LM Start	4.81	Rating **	U	Issue No.		72	
LM End	5.08	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Vegetation			37.4419	13°	37.438304°	
			-121.036600 °		-121.037130°		
DWR ID	DWR_RD1	602_01_f _ 201	9_72			·	

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of vegetation along the landside slope looking downstream. (Fall 2019)

Location

LS: Land Side WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	4.84	Rating **	М	Issue No.		76			
LM End	4.84	Issue Type +	Ма	Location *		CR			
Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Trim / Thi	n Trees		37.4414	69°	37.441469°			
пеш				-121.0366	53°	-121.036653°			
DWR ID	DWR_RD1	602_01_f _ 201	9_76						
		Comn	nent Coc	de					
T4: Trim t	rees over i	oadway to at	least 12	feet above	grou	und level.			
		Inspecto	or Comm	nent					

No Photos

LM Start	5.08	Rating **	М	Issue No.		89	
LM End	5.13	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory			Start		End		
Item	Slope Sta	bility		37.4382	49°		0
пеш		-		-121.03710	00°		0
DWR ID	DWR_RD1	602_01_f _ 201	8_89				

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Damage to slope appears to be from vehicle traffic.

LM Start	5.08	Rating **	М	Issue No.	89 (cont)
LM End	5.13	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2019_RD1602_110_89_20190912_00051.jpg



View along landside slope looking upstream. (Fall 2018)

Photo 2 of 2: FA_2019_RD1602_110_89_20190912_00052.jpg



Upclose view of some of the damage to slope. (Fall 2018)

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating

A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Acceptable
CC: Corrected
A/W: Acceptable but Monitor & Maintain

** Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

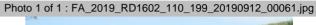
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.09	Rating **	М	Issue No.		199	
LM End	5.09	Issue Type +	Ма	Location *	on * WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		37.4381	65 °	37.438165°	
пеш				-121.0370	73°	-121.037073°	
DWR ID DWR_RD1602_01_s _ 2014_199							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





Rodent holes were found on the waterside toe of the levee looking upstream.

LM Start	5.13	Rating **	М	Issue No.		92
LM End	5.13	Issue Type +	Ма	Location * V		WS
Category Earthen Levee				GPS Latitude/Longitude		
Category						End
Item	Animal Co	ontrol		37.4375	27°	37.437527°
пеш				-121.0369	67°	-121.036967°
DWR ID DWR_RD1602_01_s _ 2017_92						·

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2019_RD1602_110_92_20190912_00055.jpg



View of a rodent hole on the waterside shoulder of the levee looking downstream.

LM Start	5.18	Rating **	U	Issue No.		48	
LM End	5.18	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Animal Co	ontrol		37.4367	85 °	37.436785°	
пеш			-121.0365	93 °	-121.036593 °		
DWR ID	DWR_RD1	602_01_s _ 201	6_48				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes.



View of rodent holes on the waterside of the levee looking downstream.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M: Minimally Acceptable CR : Corrected U: Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Not Applicable M: Not Inspected/Rated M: Minimally Acceptable D: C: Corrected Ob: Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.19	Rating **	М	Issue No.		209
LM End	5.19	Issue Type +	Ma	Location *		
Category				GPS Latitude/Longitude		
Calegory				Start		End
Item		WR UCIP LM	A	37.43674	8°	37.436748°
пеш	Responsil	oility		-121.03659	7°	-121.036597°
DWR ID	20208					
Comment Code						

Inspector Comment

DS_ID:20208 FS_ID:51336 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly fuctioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	5.19	Rating **	М	Issue No.	209 (cont)
LM End	5.19	Issue Type +	Ма	Location *	



Slide gate in CMP riser on WS slope. Outlet visible under tree in background.

Photo 2 of 3: UCIP FA 2019 51336 36821.jpg



Flapgate in Concrete headwall on WS toe under tree.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.19	Rating **	М	Issue No.		209 (cont)	
LM End	5.19	Issue Type +	Ма	Location *			
Supplemental				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item		WR UCIP LM	A	37.4367	48 °	37.436748°	
пеш	Responsil	oility		-121.0365	97°	-121.036597°	
DWR ID	20208						

Inspector Comment

Comment Code

DS ID:20208 FS_ID:51336 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly fuctioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Concrete headwall at intlet on LS toe.

LM Start	5.20	Rating **	U	Issue No.		58	
LM End	5.46	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start En			
Item	Vegetatio	n		37.4365	40°	37.433621 °	
пеш				-121.03642	27°	-121.033819°	
DWR ID	WR ID DWR_RD1602_01_f _ 2019_58						
Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the landside slope looking downstream. (Fall 2019)

Location N/A: Not Applicable LS: Land Side WS: Water Side

Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type En: Enforcement

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence

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Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.22	Rating **	М	Issue No.	52		
LM End	5.22	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Control 37.436393		93°	37.436393°			
item				-121.036296 ° -121.036			
DWR ID	DWR_RD1	602_01_s _ 201	8_52				
		Comn	nent Cod	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
	Inspector Comment						
Large rode	Large rodent hole on waterward slope.						

Photo 1 of 1: FA_2019_RD1602_110_52_20190912_00026.jpg



Looking at rodent hole and erosion around rodent hole on waterward slope.

LM Start	5.22	Rating **	М	Issue No.		68
LM End	5.22	Issue Type +	Ma	Location *		CR
Category Earthen Levee			GPS La	atitud	le/Longitude	
Calegory						End
Item	Trim / Thi	n Trees		37.436294°		37.436294°
item				-121.0362	26°	-121.036226 °
DWR ID	DWR_RD1	602_01_f _ 201	9_68			
Comment Code						
T4 : Trim trees over roadway to at least 12 feet above ground level.						

Inspector Comment

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.23	Rating **	A/W	Issue No.		210
LM End	5.23	Issue Type +	Ma	Location *		
Supplemental				GPS Latitude/Longitude		
Calegory	Category			Start		End
Item	DRAFT D	WR UCIP LM	A	37.4362	46°	37.436246°
item	Responsil	oility	-121.0361	93 °	-121.036193°	
DWR ID	DWR ID 20209					

Inspector Comment

Comment Code

DS_ID:20209 FS_ID:21665 EP_NO: 8192

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972

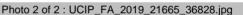
Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784]. FS Date: 10/1/2013

 LM Start
 5.23
 Rating **
 A/W
 Issue No.
 210 (cont)

 LM End
 5.23
 Issue Type +
 Ma
 Location *



Shed with slide gate in Concrete riser on WS shoulder.





Likely risers for pipe off LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.23	Rating **	A/W	Issue No.	211	
LM End	5.23	Issue Type +	Ма	Location *		
Category Supplemental				GPS La	titud	le/Longitude
				Start		End
Item	DRAFT D	WR UCIP LM	A	37.43622	7°	37.436227 °
пеш	Responsi	oility		-121.03616	9°	-121.036169 °
DWR ID	DWR ID 20222					
Comment Code						

Inspector Comment

DS_ID:20222 FS_ID:21668 EP_NO: 8192

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments:

FIELD_STRUCT_DESC: 2 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].
FS Date: 10/1/2013

LM Start	5.23	Rating **	A/W	Issue No.	211 (cont)
LM End	5.23	Issue Type +	Ma	Location *	



Slide gate in Concrete vault on WS shoulder.

Photo 2 of 2: UCIP_FA_2019_21668_36834.jpg



Possible concrete risers for pipe off LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.24	Rating **	A/W	Issue No.	212			
LM End	5.24	Issue Type +	Ма	Location *				
Category				GPS Latitude/Longitude				
Calegory	Category					End		
Item		WR UCIP LM	A	37.43612	9°	37.436129°		
пеш	Responsi	oility		-121.03606	55°	-121.036065 °		
DWR ID	ID 20210							
Comment Code								

Inspector Comment

DS_ID:20210 FS_ID:21672 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments:
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide

drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 10/1/2013

LM Start	5.24	Rating **	A/W	Issue No.	212 (cont)
LM End	5.24	Issue Type +	Ма	Location *	



Slidegate in concrete riser on WS shoulder.

Photo 2 of 3: UCIP_FA_2019_21672_36847.jpg



Concrete outlet on WS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.24	Rating **	A/W	Issue No.		212 (cont)
LM End	5.24	Issue Type +	Ма	Location *		
Catagony	Category			GPS Latitude/Longitude		
Calegory				Start		End
Item		WR UCIP LM	A	37.43612	29°	37.436129 °
пеш	Responsil	pility		-121.03606	65°	-121.036065 °
DWR ID	20210					·

Inspector Comment

Comment Code

DS_ID:20210 FS_ID:21672 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments:

FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM

5.28), Drawing No. 7-4-1784].

FS Date: 10/1/2013



Concrete inlet on LS toe.

LM Start	5.27	Rating **	М	Issue No.		41	
LM End	5.27	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Category	gory		Start		End		
Item	Trim / Thi	rim / Thin Trees		37.435834°		37.435834	0
пеш				-121.0356	15 °	-121.035615	0
DWR ID	DWR_RD1	602_01_s _ 201	9_41				
	Comment Code						

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

A/W: Acceptable but Monitor & Maintain

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.30	Rating **	М	Issue No.		59		
LM End	5.40	Issue Type +	Ma	Location *		CR		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory	Category					End		
Item	Vegetatio	n		37.4354	17°	37.434209	0	
item		-121.				-121.034559	0	
DWR ID	DWR_RD1	602_01_f _ 201	9_59					
		Comn	nent Cod	de				
V9 : Keep	the crown	roadway free	of veget	ation.				
		Inspecto	or Comm	nent				

No Photos

LM Start	5.46	Rating **	М	Issue No.		213
LM End	5.46	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	titud	le/Longitude
Calegory				Start		End
Item		WR UCIP LM	A	37.43364	l6°	37.433646°
item	Responsil	oility		-121.03384	l6°	-121.033846 °
DWR ID	20211					

Comment Code

Inspector Comment

DS_ID:20211 FS_ID:21674 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/01/2013 Pipe appears abandoned and if so

should be done so properly. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 6.9 feet below the crown. Flap gate on the waterside (WS) end. Could not locate, March 1984. (Reclamation District No. 1602). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM

5.50), Drawing No. 7-4-1784].

FS Date: 10/1/2013



Pipe and flapgate visible on WS toe.

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.49	Rating **	М	Issue No.		55	
LM End	5.55	Issue Type +	Ma	Location *		LS	
Catagory	Category Earthen Levee					e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.4333	20°	37.433115°	
пеш				-121.033429 °		-121.032354°	
DWR ID	DWR_RD1	602_01_f _ 201	9_55				
		Comn	nent Cod	de			
V1 : Contre easements		grass and wee	ds on th	e levee slo	pes	and	
		Inspecto	or Comm	nent			

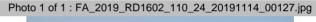
No Photos

LM Start	5.55	Rating **	U	Issue No.		24	
LM End	6.22	Issue Type +	Ma	Location *		LS	
Category	Earthen L	hen Levee			GPS Latitude/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		37.433115°		37.429200 °	
пеш				-121.0323	27°	-121.029660 °	
DWR ID	DWR_RD1	602_01_f _ 201	9_24			·	

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment





Looking East along the landside slope. (Fall 2019)

LM Start	5.64	Rating **	М	Issue No.		54	
LM End	5.64	Issue Type +	Ma	Location *		CR	
Catagory	Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End		
Item	Trim / Thi	n Trees		37.432992°		37.432992	٥
пеш				-121.0307	22°	-121.030722	0
DWR ID	DWR_RD1	602_01_f _ 201	9_54				
		Comn	nent Cod	de			

T4: Trim trees over roadway to at least 12 feet above ground level.

Inspector Comment

No Photos

* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.72	Rating **	М	Issue No.		214		
LM End	5.72	Issue Type +	Ма	Location *				
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DRAFT D	WR UCIP LM	A	37.433003°		37.433003°		
пеш	Responsil	oility		-121.0293	46°	-121.029346°		
DWR ID	VR ID 20212							
	Comment Code							

Inspector Comment

DS_ID:20212 FS_ID:51337 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from fully sloping. (AV Widtie, DWR LCIP)

fully closing. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	5.72	Rating **	М	Issue No.	214 (cont)
LM End	5.72	Issue Type +	Ma	Location *	



Slide gate in concrete riser on WS shoulder.

10/01/2013 12:37

Photo 2 of 3: UCIP_FA_2019_51337_36877.jpg



Concrete U-shaped headwall on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.72	Rating **	М	Issue No.		214 (cont)	
LM End	5.72	Issue Type +	Ма	Location *			
Catagony	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DRAFT D	WR UCIP LM	Α	37.4330	03 °	37.433003°	
пеш	Responsibility			-121.0293	46 °	-121.029346°	
DWR ID	20212					·	

Inspector Comment

Comment Code

DS_ID:20212 FS_ID:51337 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from fully closing. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Concrete U-shaped headwall on LS toe.

LM Start	5.72	Rating **	М	Issue No.		53			
LM End	5.72	Issue Type +	Ma	Location *		WS			
Category Earthen Levee				GPS Latitude/Longitude					
Calegory						End			
Item	Trim / Thin Trees			37.432990°		37.432990°			
item			-121.02924	40 °	-121.029240 °				
DWR ID DWR_RD1602_01_f _ 2019_53									
	Comment Code								

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

LM Start	5.78	Rating **	U	Issue No.		34	
LM End	5.81	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.4330	38°	37.433081 °	
item				-121.028190 °		-121.027632 °	
DWR ID DWR_RD1602_01_f _ 2018_34							
		Comn	nent Cod	de			
T2: Thin t	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.	
		Inspecto	or Comm	nent			

Photo 1 of 2: FA_2019_RD1602_110_34_20191114_00128.jpg
1 110to 1 01 2 . 1 A_2015_1\text{101002_110_04_20151114_00120.jpg}
。
And the second s
23, 06, 2019

Looking upstream along the waterside shoulder. (Fall 2019)

 LM Start
 5.78
 Rating **
 U
 Issue No.
 34 (cont)

 LM End
 5.81
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: FA_2019_RD1602_110_34_20190912_00014.jpg



trim tree to 5 feet above ground. (Fall 2018)

LM Start	5.86	Rating **	М	Issue No.		26	
LM End	5.86	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.4331	42 °	37.433142°	
Rem				-121.026702 °		-121.026702°	
DWR ID DWR_RD1602_01_f _ 2018_26							
		Comn	nent Cod	de			
T1: Trim t	rees to at l	east five feet	above g	round level			
			_				
Inspector Comment							



*Location

LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
C: Corrected
U: Unacceptable
A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable
N: Not Inspected/Rated
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/06/2019 11/06/2019	Corey Fujitani

	F 00	Rating **	NA	Issue No.		20	
LM Start	5.90		М			38	
LM End	5.90	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Odlogory				Start		End	
Item	Trim / Thi	n Trees		37.4327	'56 °	37.432756°	
item				-121.026147°		-121.026147°	
DWR ID DWR_RD1602_01_f _ 2019_38							
		Comn	nent Cod	de			
T1 : Trim t	rees to at	east five feet	above g	round level			
		Inspecto	or Comm	nent			



View of a tree growing on the waterside slope. (Fall 2019)

LM Start	5.94	Rating **	М	Issue No.		27
LM End	6.16	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.4323	94°	37.429912°
				-121.0264	36°	-121.028929°
DWR ID	DWR_RD1602_01_f _ 2019_27					
Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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